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| Structural Evaluation | |
|---|---|
| ATC Site Number & Name | **302515, Smfr - North, CT** |
| Carrier Site Number & Name | **CT11373A, Stamford/MP Exit 35-36** |
| Site Location | 0 Lot 4 Eastover Road<br>Stamford, CT 06905-1403, Fairfield County<br>41.112750 N / -73.53835278 W |
| Tower Description | **148 ft Monopole** |
| Basic Wind Speed<br>Basic Wind Speed w/ Ice<br>Code | 93 mph (3-Second Gust, $V_{asd}$) / 120 mph (3-Second Gust, $V_{ult}$)<br>50 mph (3-Second Gust) w/ ¾" ice<br>ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut Building Code |

**Existing and Reserved Equipment**

| Elevation[1] (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|---|
| Mount | RAD | | | | | |
| 159.0 | 159.0 | 3 | Andrew E15S09P94 | Flush | (12) 1 5/8" Coax | T-Mobile |
| | | 3 | RFS ATMAP1412D-1A20 | | | |
| 151.0 | 151.0 | 2 | Raycap DC6-48-60-18-8F | Platform w/ Handrails | (12) 1 1/4" Coax<br>(1) 3" conduit<br>(4) 0.78" 8 AWG 6<br>(2) 0.39" Fiber Trunk<br>(2) 0.74" 8 AWG 7 | AT&T Mobility |
| | | 12 | Powerwave LGP21401 | | | |
| | | 3 | Ericsson RRUS 11 (Band 12) (55 lb) | | | |
| | | 3 | Ericsson RRUS 32 | | | |
| | | 3 | Ericsson RRUS 32 B2 | | | |
| | | 3 | Powerwave 7770.00 | | | |
| | | 3 | Quintel QS66512-2 | | | |
| | | 3 | CCI OPA-65R-LCUU-H6 | | | |
| 142.0 | 142.0 | 6 | RFS FD9R6004 | Low Profile Platform | (12) 1 5/8" Coax<br>(1) 1 5/8" Hybriflex | Verizon |
| | | 3 | Alcatel-Lucent RRH2x40-AWS | | | |
| | | 3 | Antel BXA-171063/8CF | | | |
| | | 3 | Rymsa MGD3-800T0 | | | |
| | | 1 | RFS DB-T1-6Z-8AB-0Z | | | |
| | | 1 | Antel BXA-80063-6BF-EDIN-X | | | |
| | | 1 | Antel BXA-70063/6CF __ 2° | | | |
| | | 3 | Antel BXA-70063/6CF | | | |
| | | 1 | Antel BXA-80080/6CF | | | |
| 138.0 | 138.0 | 1 | DragonWave Horizon Compact | Side Arm | (6) 5/16" (0.31") Coax<br>(1) 1/2" Coax | Clearwire |
| | | 3 | NextNet BTS-2500 | | | |
| | | 3 | Argus LLPX310R | | | |
| | | 1 | DragonWave A-ANT-18G-2.5-C | | | |
| 132.0 | 132.0 | 3 | KMW KMDAPS2040000 (E-F Band) | Low Profile Platform | (9) 1 1/4" Coax<br>(6) 1 5/8" Coax | Sprint Nextel |
| | | 3 | KMW AM-X-WM-17-65-00T | | | |
| | | 9 | Decibel DB844H90E-XY | | | |
| 121.0 | 121.0 | 3 | Alcatel-Lucent 800MHz 2X50W RRH w/ Filter | Low Profile Platform | (4) 1 1/4" Hybriflex | |
| | | 3 | Alcatel-Lucent 4x40W RRH | | | |
| | | 3 | Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield | | | |
| | | 3 | RFS APXVTM14-C-I20 | | | |
| | | 3 | RFS APXVSPP18-C-A20 | | | |
| 110.0 | 110.0 | 2 | Diamond X50A | Side Arm | (2) 1/2" Coax | Senet |
| 105.0 | 105.0 | 1 | Antel BCD-87010 ___ 4° | Side Arm | (1) 7/8" Coax | Sensus USA |
| 76.0 | 76.0 | 1 | PCTEL GPS-TMG-HR-26N | Side Arm | (1) 1/2" Coax | Sprint Nextel |

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**Equipment to be Removed**

| Elevation[1] (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|---|
| Mount | RAD | | | | | |
| 160.0 | 160.0 | 1 | Andrew TMZXXX-6516-R2M | - | - | T-Mobile |
| | | 2 | Andrew ADFD1820-9090B-R2DM | | | |

**Proposed Equipment**

| Elevation[1] (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|---|
| Mount | RAD | | | | | |
| 159.0 | 159.0 | 3 | Commscope ATSBT-TOP-MF-4G | Flush | (6) 1 5/8" Coax | T-Mobile |
| | | 3 | Andrew SBNHH-1D65B | | | |

[1] Mount elevation is defined as height above bottom of steel structure to bottom of mount, RAD elevation is defined as center of antenna above grade level (AGL).

Install proposed coax inside of the pole shaft.

The existing and proposed loads listed in the tables above are compared to the tower's current design capacity or previous structural analysis. The tower should be re-evaluated as future loads are added or if actual loads are found different from those listed in the tables. The subject tower and foundation ***are adequate*** to support the above stated loads in conformance with specified requirements.

Reviewed by:
William Garrett, PE
Chief Engineer

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Nov 9 2016 1:58 PM

RDB/EDR

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